



# Association for Environmental Archaeology

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**Edited by Wendy Carruthers and Vanessa Straker**

Copy dates for Items for the Newsletter may be submitted by e-mail or on disk. Newsletter: 20th of the following months - January / April / July / October. Short typed manuscripts can be sent to Wendy Carruthers.

(e-mail addresses: wendy.carruthers@virgin.net; vanessa.straker@english-heritage.org.uk  
Vanessa Straker, English Heritage SW, 29 Queen Square, Bristol BS1 4ND

Wendy Carruthers, Sawmills House, Castellau, Llantrisant, Mid Glamorgan CF72 8LQ (Tel: 01443 223462).

**AEA Membership Secretary;** Dr Nicki Whitehouse, Palaeoecology Centre, School of Geography, Archaeology and Palaeoecology, Queen's University Belfast, Belfast, BT7 1NN, UK.; e-mail: [membership@envarch.net](mailto:membership@envarch.net)

AEA website <http://www.envarch.net/>

## Contents

Editorial .....	1
News from the Committee .....	1
Conferences & Meetings .....	4
Research Fellowship .....	5
New Soils Project .....	6
Publications .....	6
Booking Forms .....	11-13

## EDITORIAL

As this is the first Newsletter of the 2006 we'd like to wish everyone a Happy New Year, and then draw your attention to the subscription reminder below! Please also note the change of Membership Secretary in the News from the Committee section – our best wishes and thanks go to Jane Richardson for handling this difficult job over the last three years.

This issue contains information about the Autumn one-day meeting in Portsmouth and a last-minute reminder about the Spring Conference in Exeter – please note that the deadline for registration has now been extended to 17<sup>th</sup> February.

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## NEWS FROM THE COMMITTEE

### NEW MEMBERSHIP SECRETARY AND CONFERENCE OFFICER

The Committee is delighted to announce that Nicki Whitehouse has been appointed the new AEA Membership Secretary. Nicki has been a member of the Managing Committee since 2002, recently in the role of Conference Officer, and will assume the position of Membership Secretary with immediate effect. The Committee also welcomes the appointment of Gianna Ayala as AEA Conference Officer, replacing Nicki's previous position. The Committee would like to extend its warm thanks to our outgoing Membership Secretary, Jane Richardson, for all of her work during her three years on the Committee.

During the Membership Secretary changeover, there may be some delays in responding to members' queries – we kindly ask the membership to bear with us during this period.

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## SUBSCRIPTIONS

Reminder letters and/or emails regarding subscriptions for 2006 should shortly be arriving with all AEA members who have yet to pay. Subscriptions were due at the beginning of January: £38 (€58) for waged members, £28 (€42) for unwaged and student members (both UK and overseas). Membership renewal forms are available online (<http://www.envarch.net/aea/membership.html>) and forms were also at the back of the November 2005 edition of the Newsletter. Completed forms can be sent to the Membership Secretary: Dr Nicki Whitehouse, Palaeoecology Centre, School of Geography, Archaeology and Palaeoecology, Queen's University Belfast, Belfast, BT7 1NN, UK. E-mail: [membership@envarch.net](mailto:membership@envarch.net). If you have recently paid your subscription, please ignore the reminder!

**If you have not paid your 2006 subscription by 28<sup>th</sup> February 2006, you will be removed from the JISC-mail list and will therefore no longer receive the AEA Newsletter or other news items.**

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## EURO SUBSCRIPTIONS

If you are living in the Eurozone, you may be interested in paying AEA membership fees using the IBAN (International Bank Account Number) electronic transfer system. With this system, an AEA member can go to their local bank and transfer money to an AEA account for a small fee. The AEA has now set up a bank account in the Republic of Ireland to enable payment of membership fees using this method. Your bank's charge for payment will vary, depending on the bank and country, but the fee should be low (for example, many banks in the Republic of Ireland charge around €0.50 – check your local bank for their rates).

**Please also fill in the membership renewal form (at the back of the November 2005 Newsletter or online at <http://www.envarch.net/aea/membership.html>) and send it to the Membership Secretary at the address above so that we know where to send the journal issues and newsletters.**

Your bank will require the following details relating to the AEA's bank account. **Please ensure that you use the IBAN number and that your name is recorded on the transfer.** Subscription rates: €58 for waged members, €42 for unwaged and student members.

Bank	Ulster Bank High Street Wilton Cork Republic of Ireland
Branch code	98-54-88
Account code	66252076
Account name	Association for Environmental Archaeology
Swift Code	ULSBIE2D
IBAN	IE55ULSB98548866252076

If you have any queries about using the IBAN system, please contact Meriel McClatchie ([m.mcclatchie@ucc.ie](mailto:m.mcclatchie@ucc.ie)).

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## JOURNAL

### ***Environmental Archaeology* 10.2**

Issue 10.2 of the Association's journal, *Environmental Archaeology*, was distributed in December. If you have paid your 2005 subscription but did **not** receive your copies of 10.1 and 10.2, please contact the Membership Secretary ([membership@envarch.net](mailto:membership@envarch.net)) to check your current membership status.

### **Contents of *Environmental Archaeology* 10.2**

*Peta J. Mudie, Andre Rochon and Elisabeth Levac* Decadal-scale sea ice changes in the Canadian Arctic and their impacts on humans during the past 4,000 years  
*Colin Amundsen, Sophia Perdikaris, Thomas H. McGovern, Yekaterina Krivogorskaya, Matthew Brown, Konrad Smiarowski, Shaye Storm, Salena Modugno, Malgorzata Frik and Monica Koczela* Fishing Booths and Fishing Strategies in Medieval Iceland: an Archaeofauna from the of Akurvík, North-West Iceland

*Rebecca A. Nicholson, Pauline Barber and Julie M. Bond* New Evidence for the Date of Introduction of the House Mouse, *Mus musculus domesticus* Schwartz & Schwartz, and the Field Mouse, *Apodemus sylvaticus* (L.), to Shetland  
*Anton Ervynck* Detecting the Seasonal Slaughtering of Domestic Mammals: Inferences from the Detailed Recording of Tooth Eruption and Wear  
*David N. Smith, John Letts and Mike Jones* Modern Coleoptera from Non-cereal Thatch: A Poor Analogue for Roofing Material from the Archaeological Record  
*Mike J. Church, Símun V. Arge, Seth Brewington, Thomas H. McGovern, Jim M Woollett, Sophia Perdikaris, Ian T. Lawson, Gordon T. Cook, Colin Amundsen, Ramona Harrison, Yekaterina Krivogorskaya and Elaine Dunbar* Puffins, Pigs, Cod, and Barley: Palaeoeconomy at Udir Junkarinsfløtti, Sandoy, Faroe Islands  
*Oren Ackermann, Hendrik J. Bruins, Pariente Sarah, Helena Zhevelev and Aren M. Maeir* Landscape Archaeology in a Dry-Stream Valley near Tell es-Sâfi/Gath (Israel): Agricultural Terraces and the Origin of Fill Deposits

### **Environmental Archaeology 11.1**

As previously announced, the Journal will now be published by Maney Publishing ([www.maney.co.uk](http://www.maney.co.uk)). The cover of *Environmental Archaeology* has been redesigned and institutional subscribers will, for the first time, have online electronic access to this volume – more details will be provided in the near future. It is hoped that *Environmental Archaeology* 11.1 will be ready for re-launch at the Exeter conference in late March.

### **Submission of articles to *Environmental Archaeology***

Please send your new submissions to:

Dr Ingrid Mainland, Co-ordinating Editor of *Environmental Archaeology*, Department of Archaeological Sciences, University of Bradford, Bradford, BD7 1DP, UK. Tel: +44 [0]1274 23 3541; Fax: +44 [0]1274 235190; E-mail: [i.l.mainland@bradford.ac.uk](mailto:i.l.mainland@bradford.ac.uk)

Guidelines for authors are available from: <http://www.envarch.net/publications/envarch/infoauth.html>

Submissions from members of the AEA are particularly welcome!

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### **SEMINAR SERIES**

The Committee is pleased to announce an annual series of seminars to be sponsored by the AEA. The seminars will initially be held at different universities around the UK and Ireland, with a view to extending meetings more broadly in the future. The seminars will be free and the AEA will provide refreshments at each meeting. The Committee would like to extend its thanks to Richard Thomas (AEA Publicity Officer) for his work in setting up this initiative. Details of the first seminar are provided below:

**Date:** 15th February 2006

**Time:** 4pm

**Location:** School of Archaeology and Ancient History, University of Leicester

Presentation: 'Traditional' and ancient farming in the Mediterranean: problems of rationality and analogy' - Paul Halstead (University of Sheffield)

If anyone is interested in attending, or would be willing to host such an event in the future, please can they contact Richard on [rmt12@le.ac.uk](mailto:rmt12@le.ac.uk)

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### **NEW BABAO CHAIR ELECTED**

Holger Schutkowski has recently been elected chair of BABAO (British Association for Biological Anthropology and Osteoarchaeology). The AEA has previously had a good relationship with BABAO, with reciprocal attendance of committee meetings by the respective chairs when appropriate. Holger Schutkowski would like to maintain this relationship and the AEA Committee has welcomed this offer.

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### **JOURNAL DISCOUNTS**

AEA Members may wish to avail themselves of the reciprocal arrangements we have with the following journals who offer the following discounted rates for 2006 to our members:

*International Journal of Osteoarchaeology*: £95.00 sterling or US\$170.00

*Journal of Archaeological Science*: US \$103.

## CONFERENCES & MEETINGS

### AEA CONFERENCE, EXETER (28TH-30TH MARCH)

I have been able to extend the registration and booking period till **Friday 17th February**. There was much interest up to and beyond the last deadline, so I'm glad to be able to take further bookings.

Booking forms from: <http://www.sogaer.ex.ac.uk/archaeology/AEA2006booking.shtml>

The conference programme is now effectively full, in terms of oral presentations, but I could accept posters. The precise running orders are not quite finalised but details of the sessions are available from: <http://www.sogaer.ex.ac.uk/archaeology/AEA2006sessions.shtml>

Alan K. Outram BA MSc PhD MIFA FSA  
(Conference Organiser)  
Senior Lecturer in Archaeology  
Department of Archaeology, SoGAER  
University of Exeter  
Laver Building  
North Park Road  
Exeter  
EX4 4QE UK

Tel: +44 (0)1392 264398

Fax: +44 (0)1392 264358

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### AEA ONE DAY MEETING SECOND CALL FOR PAPERS

**Sea Changes: Environmental Archaeology in the Marine Zone, From Coast to Continental Shelf.**

***Tuesday 26th September 2006 at Portsmouth Historic Dockyard***

In 2002 English Heritage took on responsibility for maritime archaeology in England's coastal waters. As result of these changes there has been a greater emphasis on maritime archaeology within England, with a number of maritime archaeology projects being funded through the Aggregates Levy Sustainability Fund and the Historic Environment Enabling Programme.

This therefore seems an ideal time to examine the vital part environmental archaeology plays in understanding coastal archaeology, from estuarine landscapes to coastal defences, and underwater sites, such as wrecks and submerged landscapes. It is hoped that this one day meeting will allow us to compare approaches, results and experiences, not only from a British perspective but also from Europe and beyond.

The conference has been organised to run in conjunction with the Maritime Affairs Group Conference "Managing the Marine Cultural Heritage: The Significance" which will take place on 27th and 28th September 2006, also at Portsmouth Historic Dockyard (see AEA Newsletter 90, November 2005). A field trip is offered on the 27th of September to look at the maritime archaeology, cultural heritage and natural history of Chichester and Langstone harbours. The field trip will include an exhibition, buffet lunch and solar-boat tour. The conference will also host the annual general meeting of the Association for Environmental Archaeology.

Offers of papers on any aspect of environmental archaeology within the maritime zone are welcomed. A selection of the papers from the conference will be offered for publication in a future issue of Environmental Archaeology.

**\*\*UPDATE\*\***

We are keen for students to attend, and the AEA is offering a prize of £50 worth of book tokens for the best student poster (to be presented in A1 format).

Please contact Zoë Hazell or Andy Hammon, at English Heritage, Fort Cumberland, Fort Cumberland Road, Eastney, Portsmouth, PO4 9LD tel: 02392 856700 (email: [zoe.hazell@english-heritage.org.uk](mailto:zoe.hazell@english-heritage.org.uk), or [andy.hammon@english-heritage.org.uk](mailto:andy.hammon@english-heritage.org.uk)).

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**IQUA AGM/SPRING MEETING, SATURDAY 4TH MARCH 2006, QUEEN'S UNIVERSITY BELFAST, BELFAST.**

The IQUA Spring Meeting and AGM will be held at Queen's University Belfast on Saturday, March 4th 2006, in the Peter Froggatt Centre, beginning at 10 a.m (Registration: 9:30). The morning and early afternoon will be devoted to talks on current or recently completed research on topics covered by IQUA's broad spread of interests. The programme of oral presentations is already full, but I would like to hear from anyone who is interested in presenting a poster. Abstract should be submitted 20th February 2006.

The programme will be posted on the IQUA website very shortly at

([www.tcd.ie/Geography/IQUA/Index.htm](http://www.tcd.ie/Geography/IQUA/Index.htm)

<outbind://7/www.tcd.ie/Geography/IQUA/Index.htm> ) and via [www.qub.ac.uk/arcpal/events](http://www.qub.ac.uk/arcpal/events)

<outbind://7/www.qub.ac.uk/arcpal/events> , where there is also a list of accommodation options for any participants who wish to stay over-night.

I will be organising an informal evening meal for participants who wish to stay over in Belfast, if there is sufficient interest; please let me know if you would like to come along no later than the 20th February. In order to plan numbers it would be helpful to know numbers of participants, please do email me if you hope to make the meeting. There will be a small charge to cover coffee/teas and a book of abstracts, payable on the day.

Dr Nicki J. Whitehouse, F.R.E.S.

Palaeoecology Centre,

School of Geography, Archaeology and Palaeoecology (GAP) Queen's University Belfast Belfast BT7

1NN Tel +44 028 90973978 [http://www.qub.ac.uk/arcpal/staff/n\\_white.htm](http://www.qub.ac.uk/arcpal/staff/n_white.htm)

<http://www.chrono.qub.ac.uk/>

INQUA Commission on Palaeoecology and Human Evolution

(<http://www.inqua.tcd.ie/PAHE/>)

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**UNIVERSITY OF YORK  
DEPARTMENT OF ARCHAEOLOGY  
POSTDOCTORAL RESEARCH FELLOW IN MARITIME ZOOARCHAEOLOGY**

*Fishlab*, the University's maritime zooarchaeology laboratory is seeking a postdoctoral research fellow for a three-year post from 1 April 2006. You will contribute to the *Medieval Origins of Commercial Sea Fishing Project* funded by the Leverhulme Trust and endorsed by the Census of Marine Life through its historical branch, the *History of Marine Animal Populations*. Your responsibilities will be to coordinate the day to day running of the project, to liaise with museum curators, to extract, identify and measure appropriate bones from archaeological fish bone assemblages housed in collections across Britain and Europe, to analyse zooarchaeological and isotopic data using statistical methods, to maintain accurate and up-to-date project archives and to assist with disseminating the project's results by maintaining a project website, presenting at international conferences and writing journal articles. You will have a PhD (in hand or submitted by April 2006), practical experience in zooarchaeology (preferably regarding fish bone) and proficiency with multivariate statistics. Knowledge of medieval archaeology and/or stable isotope analysis is desirable, as is experience working in an international European research team.

You will be responsible to Dr. James Barrett, the project's principal investigator, but will also work closely with other members of the research team in York and internationally, particularly Professor Callum Roberts, Dr. Wim Van Neer, Professor Mike Richards, Dr. Andrew Jones, Dr. Inge Enghoff and Dr. Anton Ervynck.

Informal enquiries can be addressed to Dr. James Barrett ([jhb5@york.ac.uk](mailto:jhb5@york.ac.uk)).

Salary will start at £21,156 per annum. Job-share applications are welcome.

For further particulars and details of how to apply, please see our website at: <http://www.york.ac.uk/admin/persnl/jobs/> or write to the Personnel Office, University of York, Heslington, York YO10 5DD, quoting reference number BR0618.

Closing date: **17<sup>th</sup> February 2006**

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### NEW KNOWLEDGE TRANSFER GRANT.

The Natural Environment Research Council (NERC) has recently awarded £204k to a collaborative project between the Departments of Biological and Environmental Sciences and Computing Science, University of Stirling. The project will develop SASSA: a web-based Soil Analysis Support System for Archaeologists. SASSA will act as a repository for geoarchaeological information in the form of case studies, provide decision support on field and laboratory analyses linked to archaeological questions through the use of case-based reasoning and decision trees, and allow exchange of information through user forums and a WIKI engine. One of the main features of SASSA will be its interactive, easy-to-use interface, whose aim is to foster an improved exchange of experience than has been traditionally the case regarding the application of soil science to archaeology. Further details on the project can be found at [www.SASSA.org.uk](http://www.SASSA.org.uk).

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### PUBLICATIONS

**We are very grateful to James Greig ([jimi.gee@virgin.net](mailto:jimi.gee@virgin.net)) for sending the following information. James writes;**

**“Thanks to James Barrett, Angela Kreuz and Krystyna Wasylkova for publication information”.**

#### BOOKS

N. Alonso, M. Gené, X. Gómez, et al. (2002) *Recuperat et passat a la línia del tren d'alta velocitat. L'assentament protohistòric, medieval i d'època moderna de El Vilot of Montagut (Alcarràs, Lleida)* [Recovering the past by the high speed train. The protohistoric, medieval and modern settlement of El Vilot of Montagut, in Catalan]. Gestora de Infraestructura Ferroviàries, Generalitat de Catalunya, Lleida, pp.

R. Buxó (2004) *Eines i feines del camp a Catalunya. L'estudi de l'agricultura a través de l'arqueologia* [tools and work in the Catalan countryside. The study of agriculture through archaeology, in Catalan]. Museu d'arqueologia de Catalunya, Girona, pp.

M. Litýnska-Zajac and M. Wasylkova (2005) *Przewodnik do Badań archeobotanicznych* [Introduction to archaeobotanical study, in Polish. (Vademecum Botanicum) Sorus, Poznań, 566 pp. A fully comprehensive textbook of archaeobotany covering methods, origins of cultivated plants, seed morphology, wood, phytoliths, pollen, interpretation, everything in fact. Worth learning Polish for.

#### CHAPTERS

L. Bouby (2003) De la récolte au stockage. Eclairages carpologiques sur les opérations de traitement des céréales à l'âge du Bronze dans le sud de la France [From harvest to storage. Macrofossil data on Bronze Age cereal processing in the S of France]. In P. C. Anderson et al. (eds.), *Le traitement des récoltes: un regard sur la diversité, du Néolithique au présent*. (23) APDCA, Antibes pp. 21-46.

J. Erroux and G. Fages (2001) Analyses des graines carbonisées de Baume Layrou [analyses of charred grain from Baume Layrou, in French]. In P. Marinval (ed.), *Histoires d'hommes, histoires des plantes*. Mergoïl, Montagnac pp. 25-35.

A.G. Fahmy (2003) Palaeoethnobotanical studies of Egyptian predynastic cemeteries: new dimensions and contributions. In K. Neumann, A. Butler and S. Kalheber (eds.), *Food, fuel and fields*. (Africa Praehistorica 15) Heinrich-Barth Institut, Köln pp. 95-106.

B.V. Geel (2001) Non-pollen palynomorphs. In J. P. Smol, H. J. B. Birks and W. M. Last (eds.), *Tracking environmental change using lake sediments*. Kluwer, Dordrecht pp. 99-119.

M. Lagies (2004) Palynologische Untersuchungen zur Vegetations- und Siedlungsgeschichte von Spessart und Odenwald während des jüngeren Holozäns [Pollen studies of settlement and vegetational history of the Spessart and Odenwald in the later Holocene, in German]. In M. Rösch (ed.), *Zu den Wurzeln unserer Kulturlandschaft - experimentelle Forschungen*. (Materialhefte zur Vor- und Frühgeschichte in Baden-Württemberg ) Theiss, Stuttgart .

M. Silmann (2002) Botanische Gröreste mittelalterlicher und frühneuzeitlicher Latrinen und Gruben aus Freiburg im Breisgau [Botanical macrofossils from medieval and post-medieval latrines and pits in Freiburg im Breisgau]. In L. Galioto, F. Löbbeke and M. Untermann (eds.), *Das Haus "Zum roten Basler Stab" (Salzstrasse 20) in Freiburg im Breisgau*. (Forschungen und Berichte der Archäologie des Mittelalters in Baden-Württemberg 25) Theiss, Stuttgart pp. 623-770.

## ARTICLES

M. Abdel Ghani and A.G. Fahmy (2001) Analysis of aquatic vegetation in islands of the Nile valley (Egypt). *International Journal of Ecology and Environmental Sciences* 27: 1-11

Ö. Akeret (2005) Plant remains from a Bell Beaker site in Switzerland, and the beginnings of *Triticum spelta* (spelt) cultivation in Europe. *Vegetation History and Archaeobotany* 14(4): 279-286

N. Alonso Martinez (2005) Agriculture and food from the Roman to the Islamic period in the north-east of the Iberian peninsula: archaeobotanical studies in the city of Lleida (Catalonia, Spain). *Vegetation History and Archaeobotany* 14(4): 341-361

J.L. Araus, G.L. Slafer, R. Buxó, et al. (2003) Productivity in prehistoric agriculture: physiological models for the quantification of cereal yields as an alternative to traditional approaches. *Journal of Archaeological Science* 30: 681-693

J.E. Aura, Y. Carrión, E. Estrelles, et al. (2005) Plant economy of hunter-gatherer groups at the end of the last Ice Age: plant macroremains from the cave of Santa Maira (Alacant, Spain) ca. 12000-9000 B.P. *Vegetation History and Archaeobotany* 14(4): 542-550

C.C. Bakels (2005) Crops produced in the southern Netherlands and northern France during the early medieval period: a comparison. *Vegetation History and Archaeobotany* 14(4): 394-399

M. Bandini Mazzanti, G. Bosi, M.A. Mercuri, et al. (2005) Plant use in a city in northern Italy during the late medieval and renaissance periods: results from archaeobotanical investigations of "the mirror pit" (14th-15th century) in Ferrara. *Vegetation History and Archaeobotany* 14(4): 442-452

J.H. Barrett, A.M. Locker and C.M. Roberts (2004a) Dark Age economics revisited: the English fish bone evidence AD 600-1600. *Antiquity* 78: 618-636

J.H. Barrett, A.M. Locker and C.M. Roberts (2004b) The origin of intensive marine fishing in medieval Europe: the English evidence. *Proceedings of the Royal Society B* 271: 2417-2421

J.H. Barrett and M.P. Richards (2004) Identity, gender, religion and economy. New isotope evidence for marine resource intensification in early historic Orkney, Scotland. *European Journal of Archaeology* 7: 249-271

A. Bieniek and P. Pokorny (2005) A new find of macrofossils of feather grass (*Stipa*) in an early Bronze Age storage pit at Vliněves, Czech Republic: local implications and possible interpretation in a central European context. *Vegetation History and Archaeobotany* 14(4): 295-302

A. Bogaard, G. Jones and M. Charles (2005) The impact of crop processing on the reconstruction of crop sowing time and cultivation intensity from archaeobotanical weed evidence. *Vegetation History and Archaeobotany* 14(4): 505-509

K. Borojević (2005) Nutrition and environment in medieval Serbia: charred cereal, weed and fruit remains from the fortress of Ras. *Vegetation History and Archaeobotany* 14(4): 453-464

- J.A.A. Bos, B.V. Geel, B.J. Groenewoudt, et al. (2006) Early Holocene environmental change, the presence and disappearance of early Mesolithic habitation near Zutphen, (The Netherlands). *Vegetation History and Archaeobotany* 15(1): 27-43
- L. Bouby, G. Fages and J.M. Treffort (2005) Food storage in two late Bronze Age caves of southern France: palaeoethnobotanical and social implications. *Vegetation History and Archaeobotany* 14(4): 313-328
- A. Caparelli, V. Lema, M. Giovanetti, et al. (2005) The introduction of Old World crops (wheat, barley and peach) in Andean Argentina during the 16th century A.D.: archaeobotanical and ethnohistorical evidence. *Vegetation History and Archaeobotany* 14(1): 472-484
- F.M. Chambers, J.R.G. Daniell, J.B. Hunt, et al. (2004) Tephrostratigraphy of An Loch Mor, Inis Oirr, western Ireland: implications for Holocene tephrochronology in the northeastern Atlantic region. *The Holocene* 14: 703-720
- M. Charles and C. Hoppé (2003) The effects of irrigation on weed floras of winter cereal crops in the Wadi Ibn Hamad (southern Jordan). *Levant* 35: 213-230
- M. Charles, C. Hoppé, A. Bogaard, et al. (2003) Using weed functional attributes for the identification of irrigation regimes in Jordan. *Journal of Archaeological Science* 30: 1429-1441
- E.E. Cole and F.J.G. Mitchell (2003) Human impact on the Irish landscape during the late Holocene inferred from palynological studies at three peatland sites. *The Holocene* 13: 507-515
- M. Derremaux (2005) How to detect fodder and litter? a case study from the Roman site "le Marais de Dourges", France. *Vegetation History and Archaeobotany* 14(4): 373-385
- M. Ernst and S. Jacomet (2006) The value of the archaeobotanical analysis of desiccated plant remains from old buildings: methodological aspects and interpretation of crop weed assemblages. *Vegetation History and Archaeobotany* 15(1): 45-56
- A.G. Fahmy (2001) Plant remains in gut contents of ancient Egyptian predynastic mummies (3750-3300 B.C.). *Online Journal of Biological Sciences* 1: 772-774
- J.P. Ferrio, J.L. Araus, R. Buxó, et al. (2005) Water management practices and climate in ancient agriculture: inferences from the stable isotope composition of archaeobotanical remains. *Vegetation History and Archaeobotany* 14(4): 510-517
- D. Fuller (2001) Ashmounds and hilltop villages: the search for early agriculture in southern India. *Archaeology International* 2000/2001: 43-46
- A. Gamal-El-Din Fahmy (2005) Missing plant macro remains as indicators of plant exploitation in Predynastic Egypt. *Vegetation History and Archaeobotany* 14(4): 287-294
- B.V. Geel, J. Buurman, O. Brinkkemper, et al. (2003) Environmental reconstruction of a Roman period settlement at Uitgeest (The Netherlands), with special reference to coprophilous fungi. *Journal of Archaeological Science* 30: 873-883
- V.A. Hall (2000) The documentary and pollen analytical records of the vegetational history of the Irish landscape AD 200-1650. *Peritia* 14: 342-371
- V.A. Hall (2006) The vegetation history of monastic and secular sites in the midlands of Ireland over the last two millennia. *Vegetation History and Archaeobotany* 15(1): 1-12
- A.G. Heiss and K. Oeggl (2005) The oldest evidence of *Nigella damascena* L. (Ranunculaceae) and its possible introduction to central Europe. *Vegetation History and Archaeobotany* 14(4): 562-570
- G. Hörnberg, E. Bohlin, E. Helberg, et al. (2006) Effects of Mesolithic hunter-gatherers on local vegetation in a non-uniform glacio-isostatic land uplift area, northern Sweden. *Vegetation History and Archaeobotany* 15(1): 13-26
- S. Jahns (2006) The later Holocene history of vegetation, land-use and settlements around the Ahlenquellenmoor in the Solling area, Germany. *Vegetation History and Archaeobotany* 15(1): 57-63

- G. Jones, M. Charles, A. Bogaard, et al. (2005) The functional ecology of present-day arable weed floras and its applicability for the identification of past crop husbandry. *Vegetation History and Archaeobotany* 14(4): 493-504
- G. Jones and S.M. Valamoti (2005) *Lallemantia*, an imported or introduced oil plant in the Bronze Age. *Vegetation History and Archaeobotany* 14(4): 571-577
- A.J. Kalis, L. Merekt and J. Wunderlich (2003) Environmental changes during the Holocene climatic optimum in central Europe - human impact and natural causes. *Quaternary Science Reviews* 22: 33-79
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ASSOCIATION FOR ENVIRONMENTAL ARCHAEOLOGY  
 SPRING CONFERENCE  
 UNIVERSITY OF EXETER: 28<sup>TH</sup> – 30<sup>TH</sup> MARCH 2006  
*Novel Environmental Archaeology: Integrating New lines of Evidence and Rethinking Established Techniques*

**Registration and Booking Form**

**N.B.**

- Please clearly circle your requirements and fill in the sub-total and total boxes
- Bookings should be returned by Friday 6<sup>th</sup> January 2006 – NOW EXTENDED TO 17<sup>th</sup> FEBRUARY

**Registration (includes morning and afternoon refreshments and conference pack)**

Student/Unwaged	AEA Members	Non-Members	<b>Sub-Total A</b>
£30	£35	£40	

**Food (Lunch and Dinner) – please indicate V for vegetarian**

Lunch 28th	Dinner 28th	Lunch 29th	Dinner 29th	<b>Sub-Total B</b>
£8.47	£13.19	£8.47	£13.19	

**Accommodation (Bed and Breakfast)**

	Monday 27th	Tuesday 28th	Wednesday 29th	<b>Sub-Total C</b>
Single	£29.79	£29.79	£29.79	
Single En-Suite	£42.55	£42.55	£42.55	
Twin En-Suite	£59.58	£59.58	£59.58	

**Grand Total A + B + C:** \_\_\_\_\_

Name and Title:

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**N.B. Make cheques payable to “University of Exeter”.**

**The University will accept payments by credit card (Visa or Mastercard only) or UK debit card. Please complete the attached card authorisation form. In the interests of security, do not return the credit card form electronically.**

**Bookings should be returned by Friday 17<sup>th</sup> February 2006**

Return to Dr. Alan Outram, Dept. of Archaeology, Univ. of Exeter, Laver Building, North Park Rd, Exeter, EX4 4QE, UK

**AEA ONE-DAY AUTUMN MEETING – REGISTRATION FORM**

**Sea Changes: Environmental Archaeology in the Marine Zone, From Coast to Continental Shelf  
Tuesday 26th September 2006 at Portsmouth Historic Dockyard, Hampshire, UK**

Abstract submission deadline: **16 June 2006**

Registration deadline: **21 July 2006**

**Conference:**

I wish to attend the one day conference on Tuesday 26<sup>th</sup> September (tea and coffee provided) at a cost of £6 (AEA-members/unwaged) / £9 (non AEA-members)\*.

I do / not\* wish to present orally / poster\*.

**Fieldtrip:**

I do / not\* wish to attend the field trip to Chichester Harbour on Wednesday 27<sup>th</sup> September (at an additional cost of £16, including exhibition, buffet lunch and solar boat tour).

I have enclosed total payment for £.....

Please make cheques payable to 'English Heritage'. Credit card payments can be made with the additional form. Send registration forms and payment directly to: Christine Jackman, English Heritage, Fort Cumberland, Fort Cumberland Road, Eastney, Portsmouth, Hampshire, PO4 9LD. Tel. 02392 856700.

Any other queries contact [zoe.hazell@english-heritage.org.uk](mailto:zoe.hazell@english-heritage.org.uk) or [andy.hammon@english-heritage.org.uk](mailto:andy.hammon@english-heritage.org.uk) (tel. 02392 856700).

Signed.....

Name (block capitals).....

\*Delete as applicable

NB. Lunch on 26<sup>th</sup> will not be provided, although there are numerous suitable eateries in the vicinity.

*Contact details. Please complete and return with Registration Form.*

Name	
Institution	
Contact address	
Email address	
Telephone number	
Presentation / poster* title	

**Please note: the AEA one-day conference will be followed by the IFA-Maritime Affairs Group conference "Managing the Marine Cultural Heritage: The Significance" (27-28<sup>th</sup> September 2006).**

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